

**PCR-/NAT *Clostridium difficile***  
**(RV 545) Mai 2022**



**Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.**

*Sample composition and expected results.*

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2215451	∅	62	<i>Escherichia coli</i> K12
2215452	++	61 / 71,72,73,75	<i>Clostridium difficile</i> Ribotyp O27 (~ 5x10 <sup>4</sup> CFU/mL)
2215453	+++	61 / 71,72,73,75	<i>Clostridium difficile</i> Ribotyp O27 (~ 5x10 <sup>5</sup> CFU/mL)
2215454	∅	62	<i>Escherichia coli</i> K12

**Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.**

*Absolute numbers of reported individual results.*

<i>n = 180</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	2215451	2215452	2215453	2215454	2215451	2215452	2215453	2215454	
<b>Befund</b> <i>Result</i>									
<b>Positiv</b>	1	179	180	2	n.d.	1	1	1	1
<b>Negativ</b>	179	1	0	178	nein <i>no</i>	179	179	179	179
<b>Fraglich</b> <i>Questionable</i>	0	0	0	0	ja <i>yes</i>	0	0	0	0

**Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwendern verschiedener Methoden.**

*Absolute numbers and relative frequency of reported true positive and true negative results among various NAT methods.*

<b>NAT-Methode</b> [Code] (total number *)	<b>NAT richtig positiv</b> <i>True positive results</i>				<b>NAT richtig negativ</b> <i>True negative results</i>			
	2215452		2215453		2215451		2215454	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Altona RealStar <i>C. difficile</i> (n = 4)	4	100	4	100	4	100	4	100
Amplex eazyplex <i>C. difficile</i> (n = 2)	2	100	2	100	2	100	2	100
AmpliGnost <i>C. difficile</i> Tox. A +B (n = 2)	2	100	2	100	2	100	2	100
BD MAX <i>C. difficile</i> (n = 22)	22	100	22	100	22	100	22	100
HAIN GenoType CDiff (n = 1)	1	100	1	100	1	100	1	100
Cepheid Xpert <i>C. difficile</i> (n = 73)	73	100	73	100	73	100	72	99
Meridian Alethia <i>C. difficile</i> (n = 9)	9	100	9	100	9	100	9	100

<b>Quidel Solana C. difficile (n = 4)</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>
<b>Roche COBAS Liat Cdiff (n = 2)</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b>Seegene Allplex GI Bacteria (n = 11)</b>	<b>11</b>	<b>100</b>	<b>11</b>	<b>100</b>	<b>11</b>	<b>100</b>	<b>10</b>	<b>91</b>
<b>Seegene Allplex GI-EB Screening (n = 5)</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>	<b>5</b>	<b>100</b>
<b>LightMix Cdiff Toxin Gene tcdA/tcdB (n= 2)</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b>RIDAGENE C.diff. (n = 18)</b>	<b>18</b>	<b>100</b>	<b>18</b>	<b>100</b>	<b>18</b>	<b>100</b>	<b>18</b>	<b>100</b>
<b>RIDAGENE Hospital stool panel (n = 4)</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>
<b>In house PCR assay (n = 14)</b>	<b>13</b>	<b>93</b>	<b>14</b>	<b>100</b>	<b>13</b>	<b>93</b>	<b>14</b>	<b>100</b>
<b>Other commercial tests (n = 7)</b>	<b>7</b>	<b>100</b>	<b>7</b>	<b>100</b>	<b>4</b>	<b>100</b>	<b>4</b>	<b>100</b>

**Comments:**

1. Unter "Andere kommerzielle Testsysteme" sind folgende Testsysteme aufgeführt: Aries Luminex C. difficile (2x), Vitassay qPCR Clostridium difficile und toxins A+B (1x), Abacus Diagnostica GenomEra C. difficile (1x) und Biomerieux Biofire pneumo panel plus (2x).